

The MINERvA Operations Report

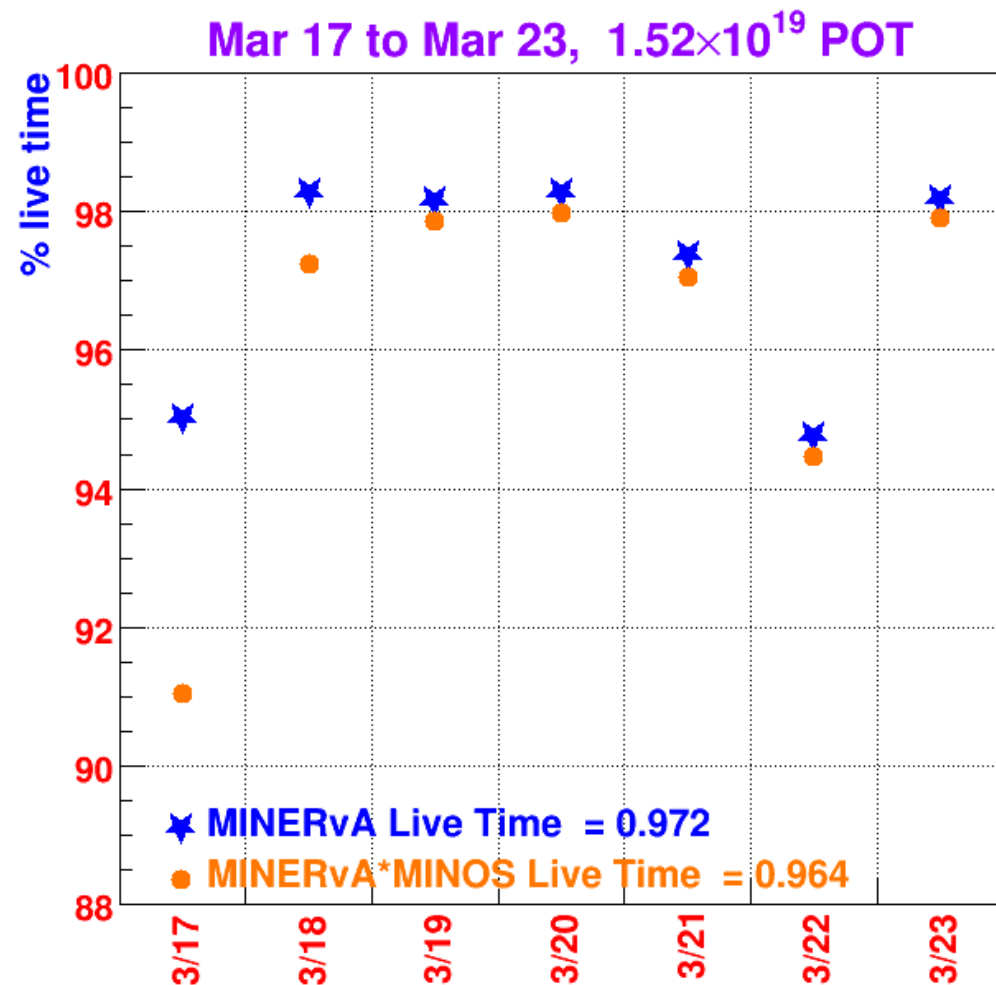
Nuruzzaman

(<http://home.fnal.gov/~nur/>)

for the MINERvA Collaboration

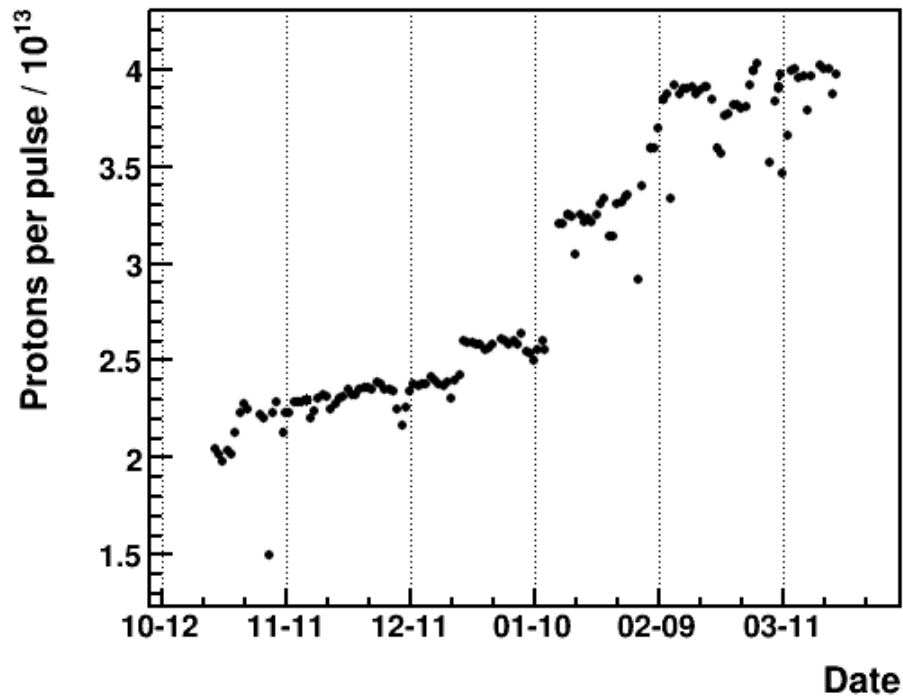
All Experimenters Meeting

28 March 2016

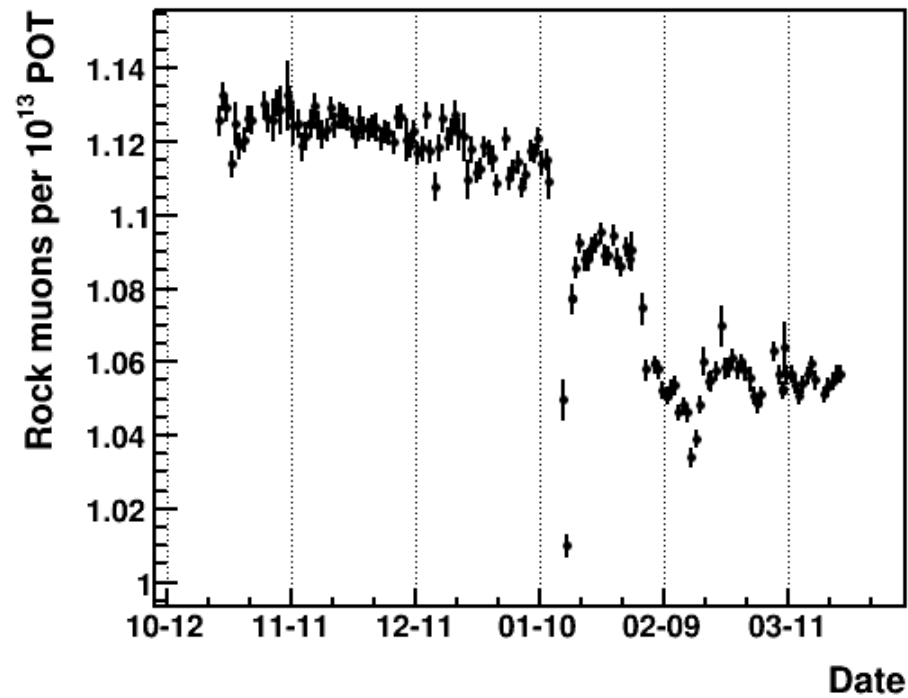


- Live Time – Mar 17-23, 2016
- 1.52×10^{19} POT
- MINERvA 97.2%
- MINERvA*MINOS 96.4%
- There was an power outage on **Mar 17**. We are still investigating the low live time.
- Communication problem on chain 0-4-0 stopped the DAQ few times on **Mar 22**.

Rock Muon/POT

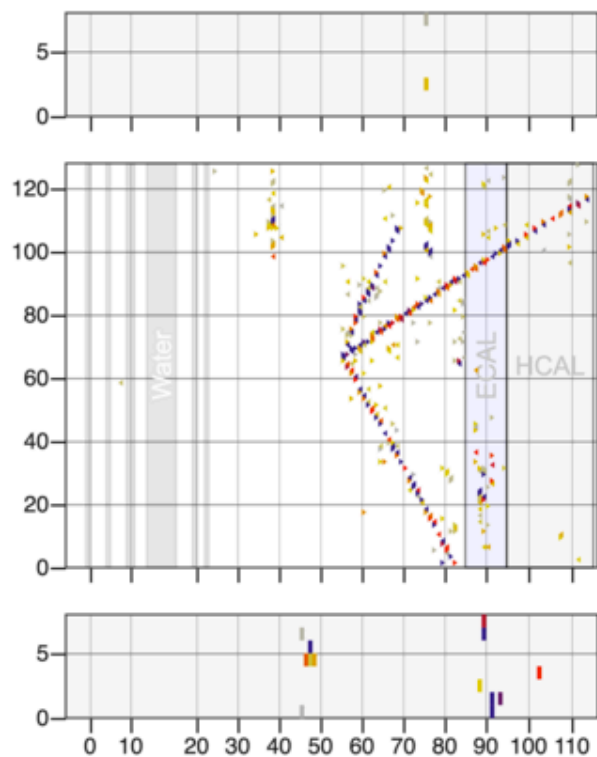


POT/Pulse

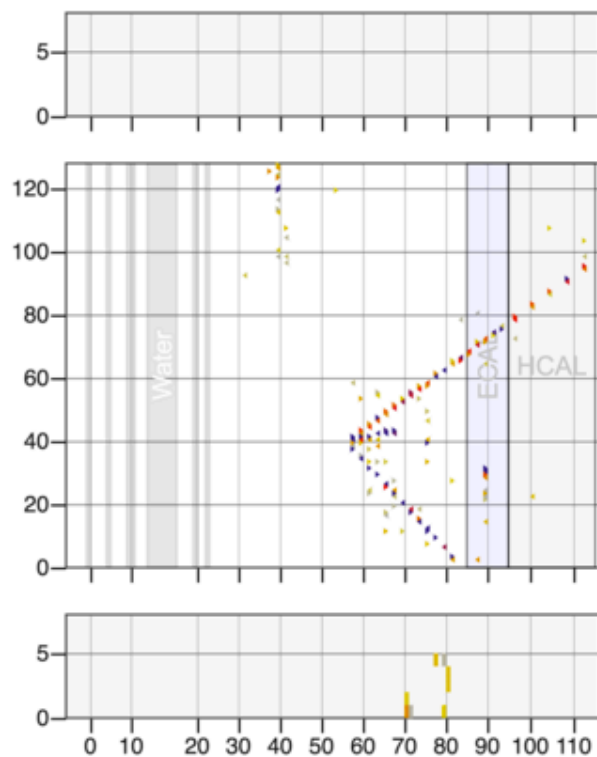


Rock Muons/POT

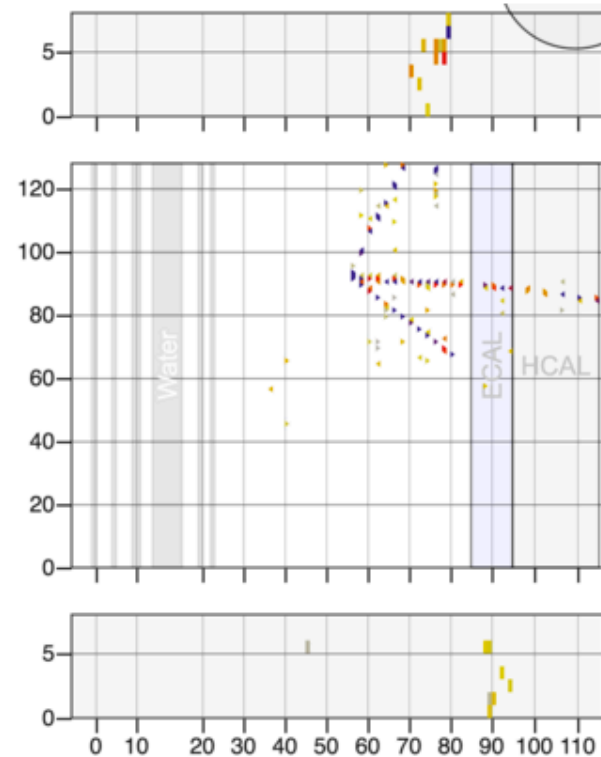
Event Display



X-view



U-view

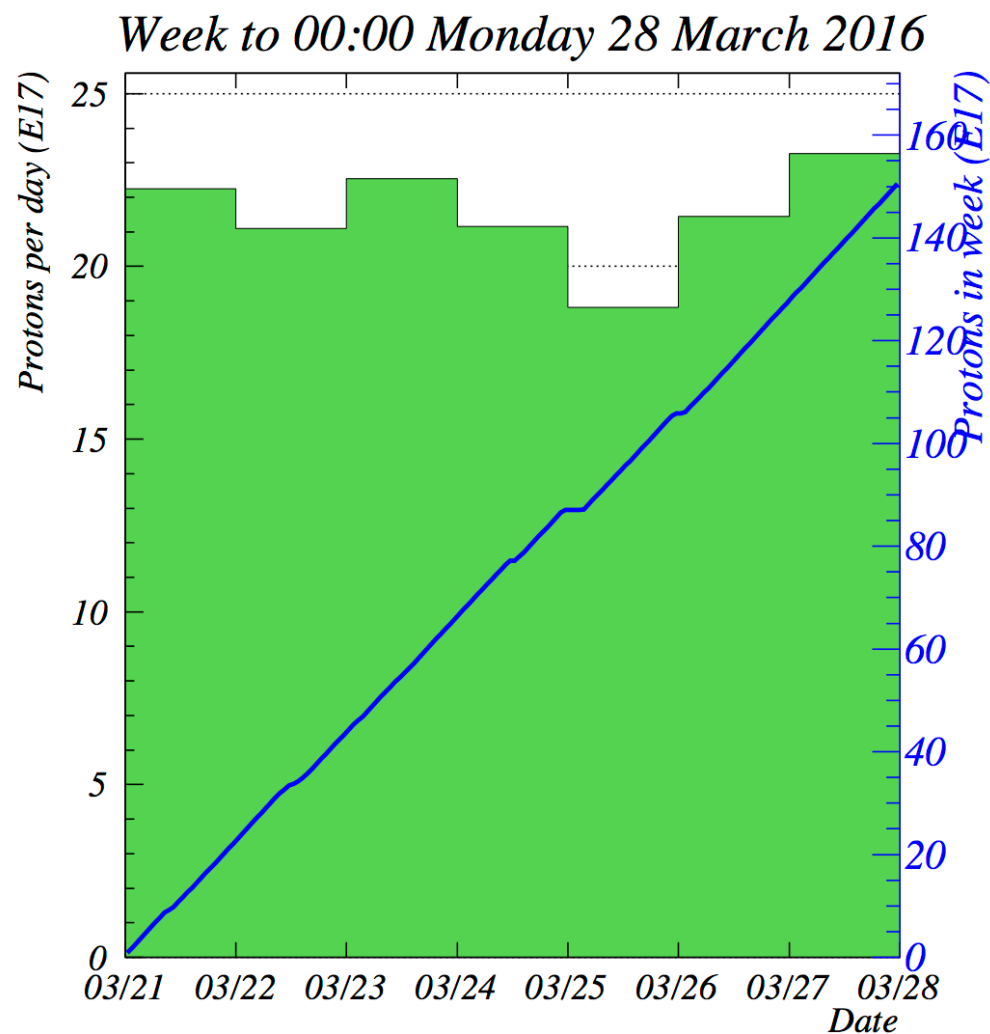


V-view

28 Mar 2016

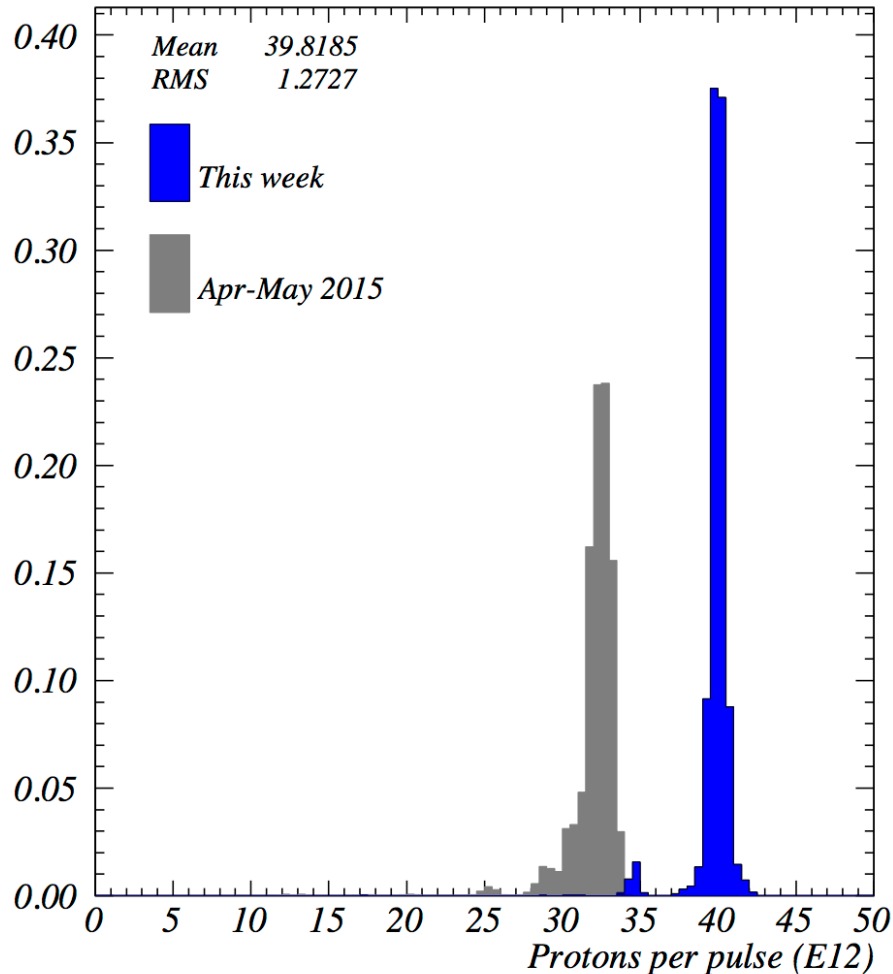
Protons for the Week

Proton on target (POT) for
the week = 1.505×10^{19}

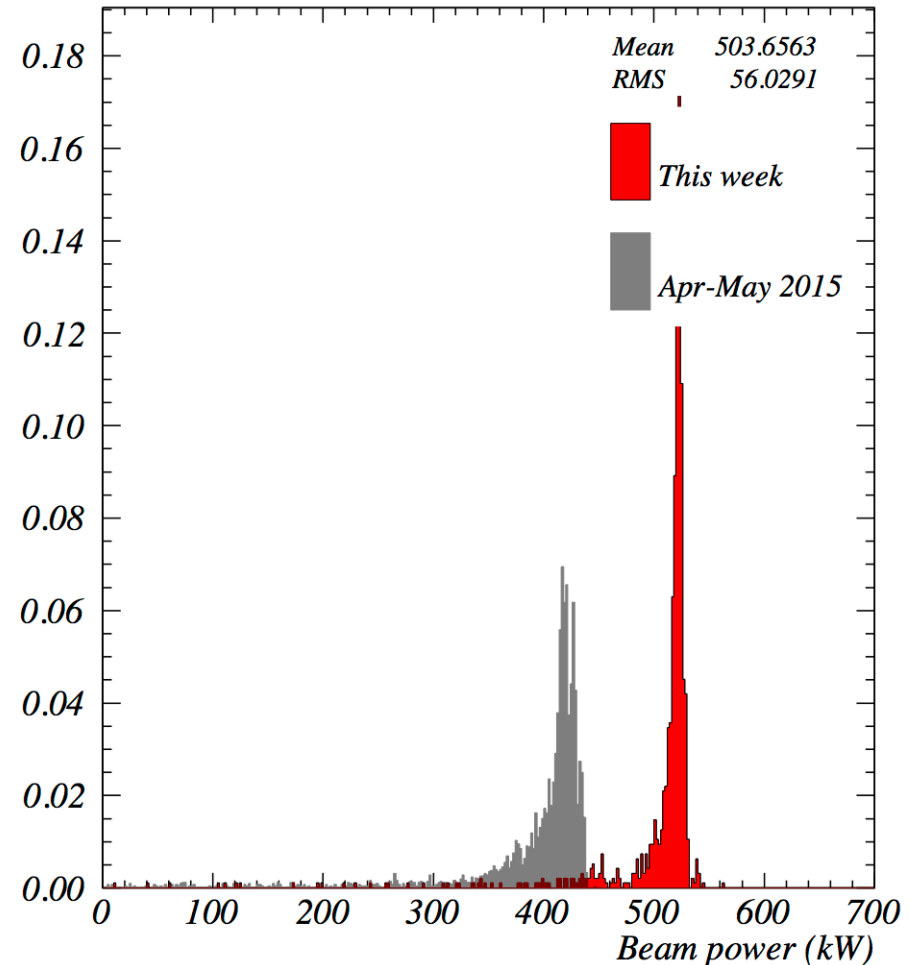


NuMI Beam Plots

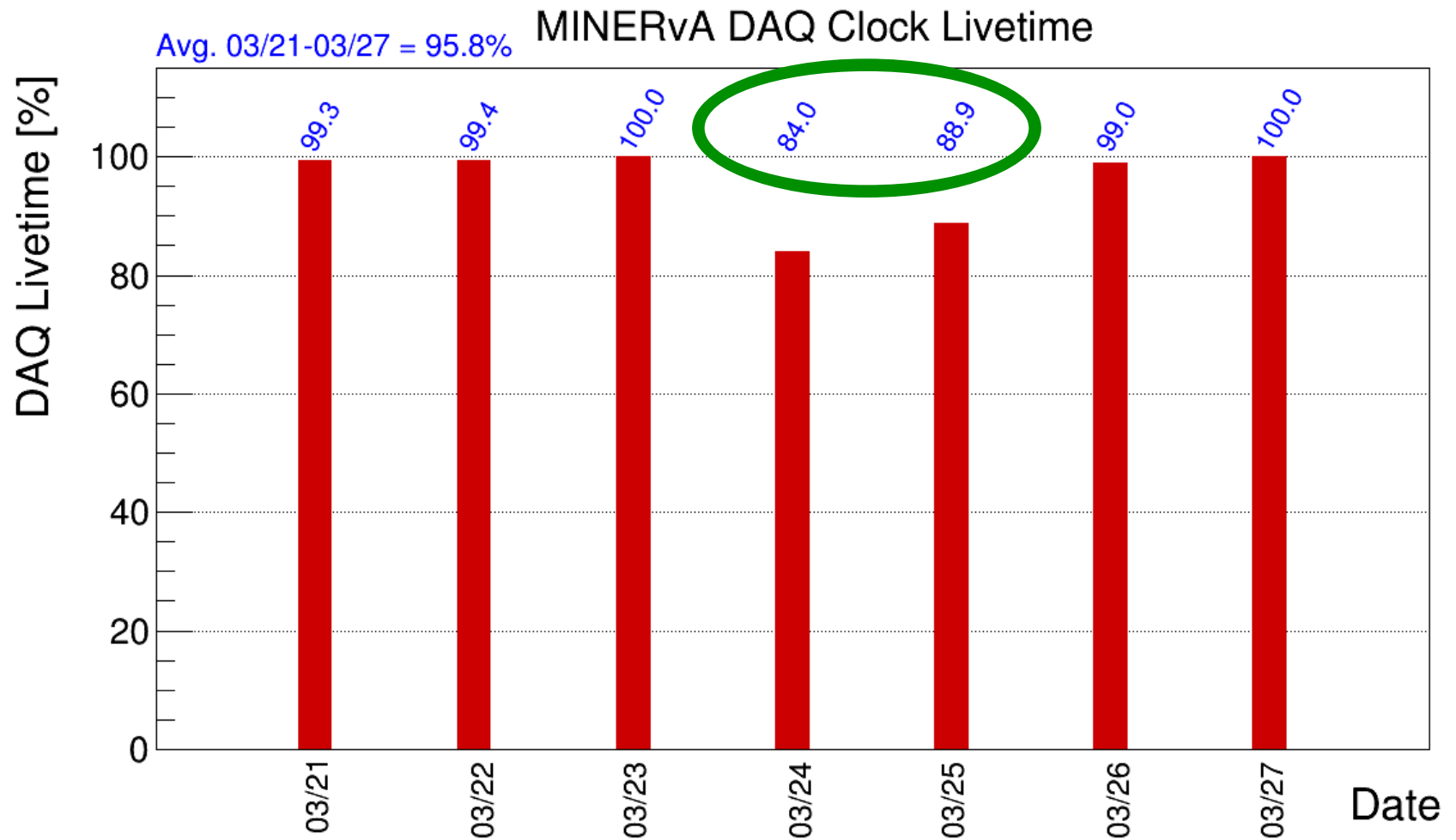
Week ending 00:00 Monday 28 March 2016



Week ending 00:00 Monday 28 March 2016



Overview of Last Weeks Situation



Overview of Last Weeks Work

PMT Replacement:

Thu 24 Mar 2016

- ◆ The PMT at 1-2-3-7 was drawing current and was not going up on voltage.
 - ❑ We have been running with this condition for the last week. Lowering voltage didn't help. We hoped to replace the PMT opportunistically.
 - ❑ But the PMT gave up and didn't go up on voltage and the attached FEB reset to it's default configuration which stopped the DAQ on Thursday.
 - ❑ Replaced the PMT and FEB.
- ✓ Seems to be normal after the replacements.

FEB Replacement:

- ◆ We also replaced the FEB 0-4-0-4.
 - ❑ The FEB was giving error and stopping the DAQ once in a while.
- ✓ Didn't see the same problem.

Overview of Last Weeks Work

Problem Communicating with the Chain 1-2-3: **Fri 25 Mar 2016**

- ◆ The same chain 1-2-3 failed to communicate with the CROCE receiver.
 - ❑ After doing few tests with the FEB, power lines, FESB power supply we found that the CROCE was still failing to communicate with the chain.
 - ❑ We moved the whole chain to another unused CROCE channel 1-6-3.
- ✓ It worked and we didn't see any problem since then.

- ◆ Replaced the roof back on today.

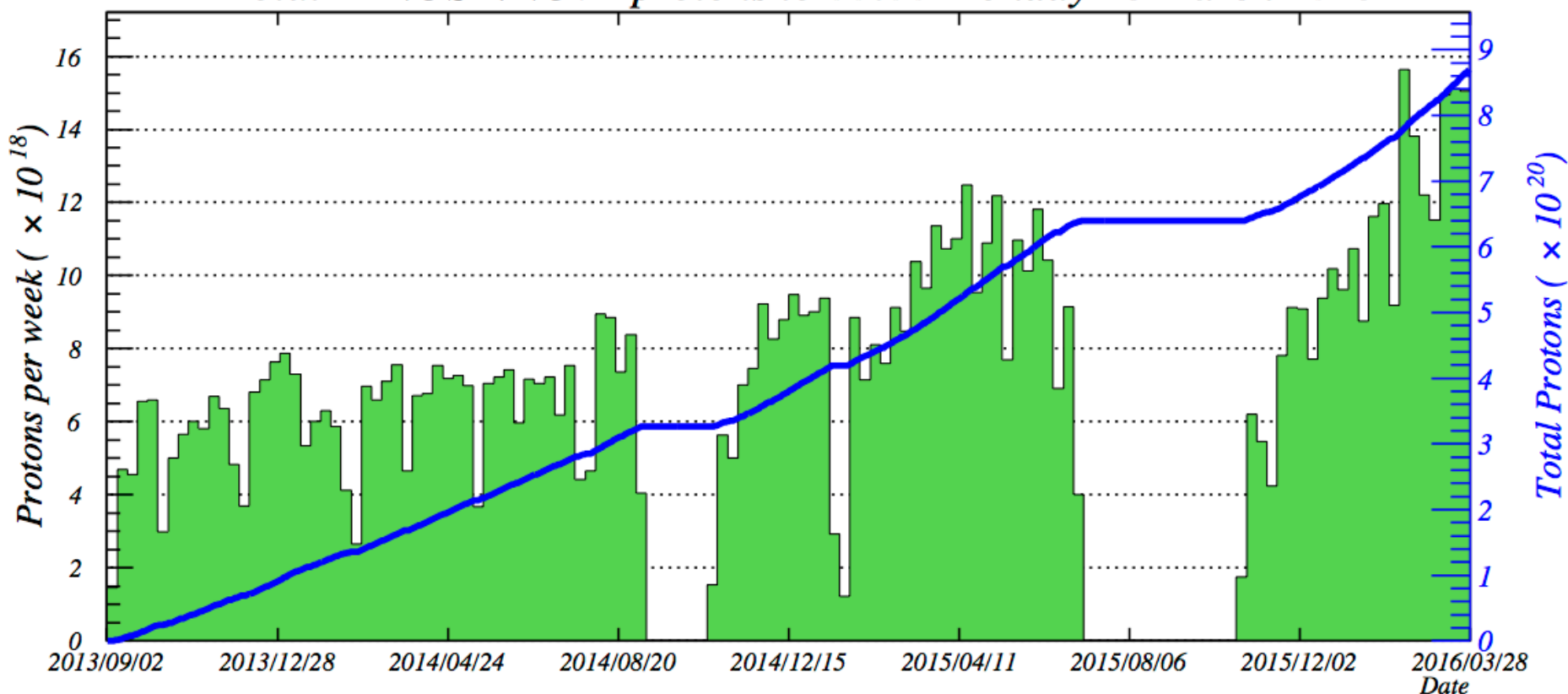
- ◆ After a long struggle we managed to start taking data this afternoon.

Special Thanks

- Steve Hahn – Neutrino Division
- Roberto Davila – EED
- John Voirin's group

Protons for ME Runs

Total MINOS+/NOvA protons to 00:00 Monday 28 March 2016



POT for the ME run

6 Sep 2013 15:00 – 28 Mar 2016 00.00 = 86.96×10^{20}